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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/840,052	05/06/2004	Harry C. Morris	DMBC-0007	6640
7590 06/20/2006			EXAMINER	
Jane Massey L	icata	ZIMMERMAN, JOHN J		
Licata & Tyrrell P.C.			ART UNIT	PAPER NUMBER
66 E. Main Street			ARTONIT	FAFER NOMBER
Marlton, NJ 08053			1775	
			DATE MAILED: 06/20/2004	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Commence	10/840,052	MORRIS, HARRY C.			
Office Action Summary	Examiner	Art Unit			
	John J. Zimmerman	1775			
The MAILING DATE of this comm Period for Reply	unication appears on the cover sheet with	the correspondence address			
WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this compared in the provision of the second state	n statutory period will apply and will expire SIX (6) MONTH ply will, by statute, cause the application to become ABAI hs after the mailing date of this communication, even if tim	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s)	filed on <u>21 May 2006</u> .				
2a)⊠ This action is FINAL .	2b) ☐ This action is non-final.				
3) Since this application is in condition	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the pra	ctice under <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>3-5 and 8-10</u> is/are pend	ing in the application.				
4a) Of the above claim(s) is	are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>3-5 and 8-10</u> is/are rejec	ted.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to rest	triction and/or election requirement.				
Application Papers					
9)☐ The specification is objected to by	the Examiner.				
10)⊠ The drawing(s) filed on <u>06 May 20</u>	$\underline{04}$ is/are: a)⊠ accepted or b) \Box objecte	ed to by the Examiner.			
Applicant may not request that any ob-	ejection to the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) includ	ing the correction is required if the drawing(s)) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected	I to by the Examiner. Note the attached (Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a clai a) All b) Some * c) None of:		19(a)-(d) or (f).			
	ty documents have been received.				
	ty documents have been received in App				
	es of the priority documents have been re	eceived in this National Stage			
• •	tional Bureau (PCT Rule 17.2(a)).	and it and			
See the attached detailed Office ac	tion for a list of the certified copies not re	eceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sur	mmary (PTO-413)			

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Paper No(s)/Mail Date ___

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

Application/Control Number: 10/840,052 Page 2

Art Unit: 1775

FOURTH OFFICE ACTION

Amendments

1. This Fourth Office Action is in response to the "Reply under 37 C.F.R. 1.111" received April 21, 2006. Claims 3-5 and 8-10 are pending in this application.

Claim Objections

2. Claim 8 is objected to because of the following informalities: The spelling of "increased" (claim 8, line 14) should be corrected.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-5, 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindblad (U.S. Patent 4,970,560).

Lindblad discloses plating a carbon steel blade with nickel-phosphorus of a thickness of 5. about 5 microns and then heat treating to increase hardness of the coating to a hardness of 68-70 Rc (e.g. column 4, lines 33-49). The use of beveled blades (e.g. column 2, line 53) and square blades (e.g. see Figure 2) are shown by Lindblad to be obvious alternative in the art depending on the particular use of the blade. Lindblad may differ from the claims in that Linblad may not require a Rockwell C hardness of "greater than 70" (e.g. claim 10, lines 8-9; claim 8, line 8), but the difference between Lindblad's hardness of 70 Rc and applicant's claimed "greater than 70" Rc is so minor that *prima facie* one of ordinary skill in the art would expect the coated blades to essentially be the same. In addition, although Linblad may not disclose that the "durability, smoothness, gloss and erosion are increased, run time for the coater or doctor blade is increased to three to four times greater than that of Blue Polished 1095 Steel, and streaking and coefficient of friction of the coater or doctor blade are decreased" (e.g. see independent claim 8; see similar language in independent claim 10), it appears that these features are simply a product of increasing the hardness of a blade to at least RC 70 (e.g. see page 5 of the specification) and therefore, these features would appear to be inherent to blades which possess a hardness of at least RC 70 (i.e. the blades of the applied prior art). Patent and Trademark Office can require applicants to prove that prior art products do not necessarily or inherently possess characteristics of claimed products where claimed and prior art products are identical or substantially identical, or are produced by identical or substantially identical processes; burden of proof is on applicants where rejection based on inherency under 35 U.S.C. § 102 or on prima facie obviousness under 35 U.S.C. § 103, jointly or alternatively, and Patent and Trademark Office's inability to manufacture products or to obtain and compare prior art products evidences fairness of this

Application/Control Number: 10/840,052

Art Unit: 1775

rejection, In re Best, Bolton, and Shaw, 195 USPQ 431 (CCPA 1977). There is no patentable distinction between the blades of Linblad and the blades claimed by applicant. Regarding the limitation "consisting of" in claim 10, the blade of Linblad (before the application of the fluorocarbon material) is a tangible intermediate article and thus reads on the claims. Regarding claim 3's recitation of "electroless" nickel, when there is a substantially similar product, as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct not the examiner to show that the same process of making, see In re Brown, 173 U.S.P.Q 685, and In re Fessmann, 180 U.S.P.Q. 324. Regarding the recitation in the claims that the blade is a coater blade or doctor blade for applying inks and coating to paper and packaging, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. The blade of Lindblad is certainly capable of applying inks and coatings to paper. See In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and In re Otto, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). In addition, the recitation of intended use for the blade has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See In re Hirao, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

6. Claims 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lindblad (U.S. Patent 4,970,560) as applied to claims 3-5, 8 and 10 above, and further in view of Calnan (U.S. Patent 3,490,314).

- 7. Lindblad may differ from claim 9 in that Lindblad's nickel-phosphorus coating may be electrodeposited (e.g. see column 4, lines 33-36). Calnan, however, clearly discloses that hard nickel-phosphorus coatings on blades can be deposited either electrolytically or electrolessly (e.g. column 2, lines 19-28). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use either electroplating or electroless plating to apply the nickel-phosphorus coatings to the blades of Lindblad because Calnan shows that either process can be used.
- 8. Claims 3-5 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Calnan (U.S. Patent 3,490,314).
- 9. Calnan discloses plating a low carbon steel blade or stainless steel blade (e.g. column 2, lines 5-11) with nickel-phosphorus of a thickness of up to 0.005 inch (e.g. see column 2, lines 65-69) and then heat treating to increase hardness of the coating (e.g. column 3, lines 4-15). The use of beveled blades is disclosed (e.g. honing column 3, lines 16-19), but the examiner notes that square edge blades are also typically used in the art. Calnan may differ from the claims in that Calnan may not disclose the Rockwell C hardness of the nickel-phosphorus layer after heat treating, but Calnan does disclose that heat treating can be done to maximum hardness (e.g.

Application/Control Number: 10/840,052

Art Unit: 1775

column 3, lines 4-15). In view of the fact that Calnan heat treats his nickel-phosphorus coatings to maximum hardness, and applicant uses the same coating composition, it must be assumed that the hardness results would be the same as applicant's results. Trademark Office can require applicants to prove that prior art products do not necessarily or inherently possess characteristics of claimed products where claimed and prior art products are identical or substantially identical, or are produced by identical or substantially identical processes; burden of proof is on applicants where rejection based on inherency under 35 U.S.C. 102 or on prima facie obviousness under 35 U.S.C. 103, jointly or alternatively, and Patent and Trademark Office's inability to manufacture products or to obtain and compare prior art products evidences fairness of this rejection, In re Best, Bolton, and Shaw, 195 USPO 431 (CCPA 1977). Regarding the recitation in the claims that the blade is a coater blade or doctor blade for applying inks and coating to paper and packaging, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. The blades of Calnan are certainly capable of applying inks and coatings to paper. See In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and In re Otto, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). In addition, the recitation of intended use for the blade has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or

structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Response to Arguments

- 10. Applicant's arguments filed April 21, 2006 have been fully considered but they are not persuasive with regards to the pending rejections.
- In an effort to expedite prosecution, applicant has amended the independent claims to 11. recite that the "durability, smoothness, gloss and erosion are increased, run time for the coater or doctor blade is increased to three to four times greater than that of Blue Polished 1095 Steel, and streaking and coefficient of friction of the coater or doctor blade are decreased" (e.g. see independent claim 8; see similar language in independent claim 10). A review of applicant's specification, however, shows that these features are simply a product of increasing the hardness of a blade to at least RC 70 (e.g. see page 5 of the specification) and therefore, these features would appear to be inherent to blades which possess a hardness of at least RC 70 (i.e. the blades of the applied prior art). Patent and Trademark Office can require applicants to prove that prior art products do not necessarily or inherently possess characteristics of claimed products where claimed and prior art products are identical or substantially identical, or are produced by identical or substantially identical processes; burden of proof is on applicants where rejection based on inherency under 35 U.S.C. § 102 or on prima facie obviousness under 35 U.S.C. § 103, jointly or alternatively, and Patent and Trademark Office's inability to manufacture products or to obtain and compare prior art products evidences fairness of this rejection, In re Best, Bolton,

and Shaw, 195 USPQ 431 (CCPA 1977). It is not necessary that the prior art disclose properties that would be inherent to the compositions. Discovery of a new property or use of previously known composition, even if unobvious from the prior art, cannot impart patentability to claims to known composition, In re Spada, 15 USPQ2d 1655 (Court of Appeals, Federal Circuit 1990). "[T]he discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition patentably new to the discoverer." Atlas Powder Co. v. Ireco Inc., 190 F.3d 1342, 1347, 51 USPQ2d 1943, 1947 (Fed. Cir. 1999). Thus the claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable. In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977). In In re Crish, 393 F.3d 1253, 1258, 73 USPQ2d 1364, 1368 (Fed. Cir. 2004), the court stated that "just as the discovery of properties of a known material does not make it novel, the identification and characterization of a prior art material also does not make it novel." There is no requirement that a person of ordinary skill in the art would have recognized the inherent disclosure at the time of invention, but only that the subject matter is in fact inherent in the prior art reference. Schering Corp. v. Geneva Pharm. Inc., 339 F.3d 1373, 1377, 67 USPQ2d 1664, 1668 (Fed. Cir. 2003); see also Toro Co. v. Deere & Co., 355 F.3d 1313, 1320, 69 USPQ2d 1584, 1590 (Fed. Cir. 2004)("[T]he fact that a characteristic is a necessary feature or result of a prior-art embodiment (that is itself sufficiently described and enabled) is enough for inherent anticipation, even if that fact was unknown at the time of the prior invention."); Abbott Labs v. Geneva Pharms., Inc., 182 F.3d 1315, 1319, 51 USPQ2d 1307, 1310 (Fed.Cir.1999); Atlas Powder Co. v. Ireco, Inc., 190 F.3d 1342, 1348-49 (Fed. Cir. 1999). See MPEP 2112.

Application/Control Number: 10/840,052 Page 9

Art Unit: 1775

12. Regarding the limitation "consisting of" in claim 10, the intermediate blade of Linblad before the application of the fluorocarbon material is a tangible intermediate product and thus reads on the claims. Tangible intermediate products are actual physical articles and therefore may be used to reject the claims. See Ex parte Brinton, 82 U.S.P.Q. 112 (BdPatApp&Int, 1949).

13. Regarding the limitation "a blade-shaped substrate base with a front side and a reverse side and angled edges on the front side and the reverse side" (e.g. see claim 10, lines 4-5) and "at least an angled edge of a front side" (e.g. claim 8, line 6), an edge formed with a right angle is still considered an "angled" edge. A right angle is an angle.

Conclusion

Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Applicant has amended the pending claims to delete packaging the blades in coiled rolls and therefore the pending rejections have been modified to omit Mahoney (U.S. Patent 3,810,58) which had been applied to show the obviousness of this feature. Accordingly, **THIS ACTION**IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Application/Control Number: 10/840,052

11

Art Unit: 1775

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than SIX

Page 10

MONTHS from the date of this final action.

15. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John J. Zimmerman whose telephone number is (571) 272-1547.

The examiner can normally be reached on 8:30am-5:00pm, M-F. Supervisor Jennifer McNeil

can be reached on (571) 272-1540. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

16. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John J. Zimmerman

Primary Examiner

Art Unit 1775

jjz

June 19, 2006